Question Paper
ANMC Question Paper 2020 - Class 7

Exam ID : TEST/2024/02/11111631 Report Generation Date : 3/26/2024 3:02:25 PM

Q1: If a number x is 25% less than another number y and y is 25% more than 144, then value of x is:

A: 140

B: 144

C: 135

D: 130

Answer: C

Q2: Which of the following is correct?

A: 8/9 < 11/12

B: 23/19 > 29/24

C: Both A & B

D: None of the above

Answer: C

Q3: What number should be added to -1/7 to get -3/5?

A: -16/35

B: 16/35

C: -2/12

D: -15/35

Answer: A

Q4: Find the value of: (8/3)×[-9/2 + 7/6]

A: 8 8/9

B: -(8 7/9)

C: 8 7/9

D: -(8 8/9)

Answer: D

Q5: Rohan had his two friends over for pizza. Rohan ate 1/7 of the pizza. One of his friends ate 3/7 of the pizza and the other friend ate 1/7 of the pizza. How much of the pizza is left?

A: 1/7

B: 1/6

C: 2/7

D: 3/7

Answer: C

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Q6: Find the possible value of x, if 4x2 - 4x + 3 = 2

A: -1/2

B: 1

C: 3/2

D: 1/2

Answer: D

Q7: If a – 3b = 2, then the value of (a3 - 27b3 - 18ab) is:

A: 6

B: 8

C: 9

D: 7

Answer: B

Q8: If x = (0.04)2, y = 1/(0.04)2 and z = (1 - 0.04)2, then out of the following, the true relation is:

A: y < x < z

B: z < x < y

C: x < z < y

D: y < z < x

Answer: C

Q9: If x2 + 6x + 1 = 0, then find x2 + 1/x2

A: 34

B: 36

C: 38

D: 40

Answer: A

Q10: Sum of three fractions is 3 13/18. On dividing the largest fraction by the smallest fraction, 11/6 is obtained which is 2/3 greater than the middle fraction. The smallest fraction is:

A: 43/49

B: 43/52

C: 41/48

D: 46/51

Answer: D

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Q11: When 295 is added to 5A4, the result is 8B9. 8B9 is divisible by 3. What is the largest possible value of A?

A: 8

B: 5

C: 9

D: 6

Answer: A

Q12: Find the value of: (5/3)×[-3/8 + 12/5]

A: 27/8

B: 8/27

C: 25/8

D: 8/25

Answer: A

Q13: If a3 + b3 = 210 and a + b = 30, then the value of (a2 + b2 - ab) is:

A: 7

B: 4

C: 8

D: 5

Answer: A

Q14: Give a simple fraction for 6.25

A: 5/8

B: 5/6

C: 25/4

D: 4/7

Answer: C

Q15: If a fraction’s denominator is decreased by 60% and numerator is increased by 200%, the fraction becomes 5/7. What is the fraction?

A: 4/25

B: 2/21

C: 3/20

D: 5/24

Answer: B

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Q16: If x + 5y = 16 and x = -4y, then y =?

A: -16

B: 8

C: 12

D: 16

Answer: D

Q17: Sam travels 330 km on three-fifths of his petrol tank. How far would he travel at the same rate with a full tank of petrol?

A: 550 km

B: 580 km

C: 520 km

D: 560 km

Answer: A

Q18: The cost of a vehicle after depreciation at the rate of 18% per annum in 2 years is Rs. 80688. The initial cost of vehicle is:

A: Rs. 121000

B: Rs. 120000

C: Rs. 126000

D: Rs. 125000

Answer: B

Q19: A cord of length 165/2 m has been cut into 24 pieces of equal length. What is the length of each piece?

A: 11/3 m

B: 33/8 m

C: 45/14 m

D: 55/16 m

Answer: D

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Q20: Which of the rational numbers 7/9, -5/6, -7/-11 and 11/-20 is the smallest?

A: -7/-11

B: 11/-20

C: 7/9

D: -5/6

Answer: D

Q21: Simplify: (13/9 × -15/2) + (7/3 × 8/5) + (3/5 × 1/3)

A: 65/9

B: -69/10

C: 81/10

D: -73/9

Answer: B

Q22: If x = 2 - 31/2 then the value of x2 + 1/x2 is:

A: 11

B: 14

C: 12

D: 13

Answer: B

Q23: If 6x2 - 6x + 1 = 0 then find the value of 36x2 + (1/x)2:

A: 24

B: 36

C: 48

D: 18

Answer: A

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Q24: If a2 + b2 + c2 = 29 and ab + bc + ca = 10 then find the value of (1/2)(a + b + c)[(a – b)2 + (b – c)2 + (c – a)2]

A: 132

B: 133

C: 130

D: 135

Answer: B

Q25: If x + 1/x = 5 then find the value of x3 + 1/x3 – 100

A: 10

B: 12

C: 8

D: 6

Answer: A

Q26: Divide 7/12 by (2/5 of 5/8)

A: 5/2

B: 5/3

C: 11/6

D: 7/3

Answer: D

Q27: A group of boys eats 3/5 of mangoes on 1st day. On the 2nd day they eat 1/4 of the remainder. How many mangoes were there initially if still 72 mangoes are left?

A: 245

B: 240

C: 242

D: 248

Answer: B

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Q28: Kishan travels 292 km on one-fourth of his petrol tank. How far would he travel at the same rate with a full tank of petrol?

A: 1178 km

B: 1158 km

C: 1188 km

D: 1168 km

Answer: D

Q29: Evaluate the following: [9 1/4 ÷ (64)1/3] – (3 1/4 ÷ 6 1/4)

A: 719/400

B: 713/400

C: 721/400

D: 717/400

Answer: D

Q30: In a class of 60 students, one day 1/5 of the students were absent. Find the number of present students on that day.

A: 48

B: 52

C: 50

D: 45

Answer: A